UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/854,977	05/14/2001	Scott LeKuch	YOR920000703US1	9087

7590	09/09/2004		EXAMINER
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ART UNIT	PAPER NUMBER
2655	

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Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
Office Action Summary	09/854,977	LEKUCH ET AL.
	Examiner	**Art Unit**	
	Dmitry Brant	2655	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _14 May 2001_.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-24_ is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) _1-24_ is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.
5)☐ Notice of Informal Patent Application (PTO-152)
6)☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2.   Claims 1-4, 8, 11-14, 18, 21-3 are rejected under 35 U.S.C. 102(e) as being

anticipated by Funyu (6,320,587).

As per claims 1, 11, 21, Funyu discloses the following limitations:

- a communication link for bi-directionally providing a communication channel between a host computing device and a companion computing device (**communication network - 34, FIG. 2a**)

- companion computing device comprising a display and further comprising a control device for transmitting a request for a language element to said host computing device over said communication link (**WWW client (35, FIG. 2a) comprising display (62e, FIG. 2b) and inherently comprising a processor which makes a request to download the fonts over the computer network (Col. 7, lines 58-62)**)

- host computing device being responsive to a receipt of said request for a language element for transmitting to said companion computing device an image representation (**bitmap, FIG. 6**) of the requested language element over said communication link for display on said companion display

device. (WWW server, (31, FIG. 2a) which downloads fonts to the client device (Col. 7,
lines 58-62))

As per claims 2, 4, 14, 12, and 22, Funyu discloses a server (host computer) with

database (storing unit, 32, FIG. 2a) which stores font data in a bitmap (image)

representation (bitmap data, FIG. 6) or character code representation (char. Code, FIG.

6)

As per claims 3,13, Funyu discloses that a database stores fonts of other foreign

languages (Col. 9, lines 11-17).

As per claims 8, 18, 23, Funuy discloses storing fonts on the client machine (Col.

8, lines 2-4)

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

4.   Claims 5-7, 9-10, 15-17, 19-20, 24 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Funyu.

As per claims 5-7, 15-17, 24, Funyu discloses a server (host device) dynamically creating font resources (image/bitmap representation) corresponding to character media data (Col. 5, lines 60-63). As shown in FIG. 6, the result of such conversion is a font comprising a bitmap (image) representation of a character.

Funuy does not explicitly disclose that the language elements (character media data) are stored in textual form, as ASCII or Unicode codes. However, FIG. 6 does show that the resulting fonts contain character codes. The examiner takes the official notice that the text codes, such as ASCII and Unicode and their corresponding conversion to images (bitmaps) are extremely well-known in the art. (See Jukka Korpela, "A tutorial on character code issues", http://www.cs.tut.fi/~jkorpela/chars.html) In addition, font data of Funuy already contains textual codes (character codes, FIG. 6) and hence, the server must necessarily have this information on hand during the creation of font resources.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Funuy to create font resources from text (ASCII, Unicode, etc), because this method is notoriously well-known in the art and would allow Funuy's system to offload the process of font data creation from the computationally weaker client machines to a dedicated server (Col. 6, lines 19-25)

As per claims 9, 19, Fenuy does not disclose that a companion computing device comprises a digitizer input system having an electronic pen or stylus for handwritten information.

However, Fenuy does suggest that a user terminal can be a PDA (Col. 2, lines 14-16). The examiner takes the official notice that it is extremely well-known that a typical PDA comprises an electronic pen/stylus for the input of handwritten information.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Funuy to use a PDA with a styluses/electronic pens, as these are exactly the limited capacity processing devices that his invention attempts to improve (Col. 6, lines 19-25) by offloading font processing to dedicated servers.

As per claims 10, 20, Fenuy does not explicitly disclose a communication link (network) which is either wireless or wired (wireline).

However, Fenuy discloses a network, such as LAN, connecting a client and a server (Col. 9, lines 55-61). The examiner takes the official notice that both wireless (802.11b) and wireline LANs (Ethernet) are extremely well-known in the art.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Funuy to use either wireless or wireline network, as this is well-known in the art and would ensure that Funuy's system would operate with both wireless (laptops) and wireline (desktops, workstations, etc.) environments.

Conclusion

5.   The prior art made of record and not relied upon is considered pertinent to
applicant's disclosure.

Peng et al. (6,252,671) teach a system for downloading fonts.

Focazio et al. (6,445,458) teach a system of rendering non-latin glyphs.

Adobe Systems Incorporated, "Glyph Bitmap (BDF) Distribution Specification",
published 3/22/93

Jukka Korpela, "A tutorial on character code issues," http://www.cs.tut.fi/~jkorpela/chars.html

6.   Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Dmitry Brant whose telephone number is (703) 305-
8954. The examiner can normally be reached on Mon. - Fri. (8:30am - 5pm).

       If attempts to reach the examiner by telephone are unsuccessful, the examiner's
supervisor, Talivaldis Ivars Smits can be reached on (703) 306-3011. The fax phone
number for the organization where this application or proceeding is assigned is (703)
872-9306.

       Any inquiry of a general nature or relating to the status of this application or
proceeding should be directed to Tech Center 2600 receptionist whose telephone
number is (703) 305- 4700.

DB

9/2/04

Susan McFadden
SUSAN MCFADDEN
PRIMARY EXAMINER